## 10/566679

## SEQUENCE LISTEN 20 Rec'd FCT/FTO 01 FEB 2006

<110>	CENT	RE N	ATIO	NAL 1	DE L	A RE	CHER	CHE	SCIE	NTIF	IQUE				
<120>	NOVEL ANTI-ANGIOGENIC AGENT AND ITS USE, IN PARTICULAR WITHIN THE FRAMEWORK OF THE TREATMENT OF CANCER														
<130>	WOB 03 AW CNR GIOG														
<150> <151>	FR 03/09506 2004-08-01														
<160>	12														
<170>	Pate	ntIn	ver	sion	3.1										
<210><211><211><212><213>	1 2389 DNA homo sapiens														
<220><221><222><223>	CDS (73)	(1	143)												
<400> gggaag	1 gcga	gcag	tgcca	aa to	ctaca	agcga	a aga	aaag	tctc	gtt	tggta	aaa a	agcga	agaggg	60
gaaago	ctga											ys Le		ga aag rg Lys	111
cag to Gln Cy 15	s Leu														159
gct gc Ala Al 30															207
acg co								_		_	_	-		_	255
tca to Ser Cy					_	-	-	_			_	_		_	303
ctg ga Leu Gl															351
gac co Asp Pr 95	o Ser														399
tgt gt Cys Va 110															447

				tgc Cys											495
				gat Asp											543
				gtg Val											591
			_	gat Asp		_						_	-		639
	-	-		cta Leu 195		_	_	_		_		_	_		687
				aca Thr											735
				cgg Arg											783
			-	ctc Leu	_	_				_	_				831
				aag Lys											879
				cac His 275											927
				ttc Phe											975
				aaa Lys				-			_	-			1023
				aag Lys											1071
				aag Lys											1119
				ggg Gly 355			taad	cctat	ca o	ctcaa	agaag	jc ac	acct	acag	1173

agcacctgta gctgctgcgc cacccaccat caaaggaata taagaaaagt aatgaagaat 1233 cacgatttca tccttgaatc ctatgtattt tcctaatgtg atcatatgag gacctttcat 1293 atctgtcttt tatttaacaa aaaatgtaat taactgtaaa cttggaatca aggtaagctc 1353 aggatatggc ttaggaatga cttactttcc tgtggtttta ttacaaatgc aaatttctat 1413 aaatttaaga aaacaagtat ataatttact ttgtagactg tttcacattg cactcatcat 1473 attttgttgt gcactagtgc aattccaaga aaatatcact gtaatgagtc agtgaagtct 1533 agaatcatac ttaacatttc attgtacaag tattacaacc atatattgag gttcattggg 1593 aagattetet attggeteee titttgggta aaccagetet gaactteeaa geteeaaate 1653 caaggaaaca tgcagctctt caacatgaca tccagagatg actattactt ttctgtttag 1713 ttttacacta ggaaacgtgt tgtatctaca gtaatgaaat gtttactaag tggactggtg 1773 tcataaactt tctccattta agacacattg actcctttcc aatagaaaga aactaaacag 1833 aaaactccca atacaaagat gactggtccc tcatagccct cagacattta tatattggaa 1893 gctgctgagg cccccaagtt ttttaattaa gcagaaacag catattagca gggattctct 1953 catctaactg atgagtaaac tgaggcccaa agcacttgct tacatcctct gatagctgtt 2013 tcaaatgtgc attttgtgga attttgagaa aaatagagca aaatcaacat gactggtggt 2073 gagagaccac acattttatg agagtttgga attattgtag acatgcccaa aacttatcct 2133 tgggccataa ttatgaaaac tcatgatcaa gatatatgtg tatacataca tgtatctggt 2193 ttgtcaggct acaaggtagg ctgcaaaatt aaatctagac attcttttaa tgccaccaca 2253 cgtgttccgc ttctctcttt taaagtattt ataaaaatat aaattgtaca ttttgtaaaa 2313 tattatgttt gatttctcta cttgtcatat cactaaataa acacgatttt attgctgaaa 2373 aaaaaaaaa aaaaaa 2389

<210> 2 <211> 357 <212> PRT

<213> homo sapiens

<400> 2

Met Gln Ser Val Gln Ser Thr Ser Phe Cys Leu Arg Lys Gln Cys Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Cys Leu Thr Phe Leu Leu Leu His Leu Leu Gly Gln Val Ala Ala Thr  $20 \hspace{1cm} 25 \hspace{1cm} 30$ 

Gln Arg Cys Pro Pro Gln Cys Pro Gly Arg Cys Pro Ala Thr Pro Pro 35 40 45

Thr Cys Ala Pro Gly Val Arg Ala Val Leu Asp Gly Cys Ser Cys Cys 50 55 60

Leu Val Cys Ala Arg Gln Arg Gly Glu Ser Cys Ser Asp Leu Glu Pro 65 70 75 80

Cys Asp Glu Ser Ser Gly Leu Tyr Cys Asp Arg Ser Ala Asp Pro Ser 85 90 95

Asn Gln Thr Gly Ile Cys Thr Ala Val Glu Gly Asp Asn Cys Val Phe 100 105 110

Asp Gly Val Ile Tyr Arg Ser Gly Glu Lys Phe Gln Pro Ser Cys Lys 115 120 125

Phe Gln Cys Thr Cys Arg Asp Gly Gln Ile Gly Cys Val Pro Arg Cys 130 135 140

Gln Leu Asp Val Leu Leu Pro Glu Pro Asn Cys Pro Ala Pro Arg Lys 145 150 155 160

Val Glu Val Pro Gly Glu Cys Cys Glu Lys Trp Ile Cys Gly Pro Asp 165 170 175

Glu Glu Asp Ser Leu Gly Gly Leu Thr Leu Ala Ala Tyr Arg Pro Glu Ala Thr Leu Gly Val Glu Val Ser Asp Ser Ser Val Asn Cys Ile Glu Gln Thr Thr Glu Trp Thr Ala Cys Ser Lys Ser Cys Gly Met Gly Phe Ser Thr Arg Val Thr Asn Arg Asn Arg Gln Cys Glu Met Leu Lys Gln 230 235 Thr Arg Leu Cys Met Val Arg Pro Cys Glu Gln Glu Pro Glu Gln Pro 250 245 Thr Asp Lys Lys Gly Lys Lys Cys Leu Arg Thr Lys Lys Ser Leu Lys 265 Ala Ile His Leu Gln Phe Lys Asn Cys Thr Ser Leu His Thr Tyr Lys 280 Pro Arg Phe Cys Gly Val Cys Ser Asp Gly Arg Cys Cys Thr Pro His Asn Thr Lys Thr Ile Gln Ala Glu Phe Gln Cys Ser Pro Gly Gln Ile 310 315 Val Lys Lys Pro Val Met Val Ile Gly Thr Cys Thr Cys His Thr Asn 325 Cys Pro Lys Asn Asn Glu Ala Phe Leu Gln Glu Leu Glu Leu Lys Thr 345 Thr Arg Gly Lys Met 355 <210> 3 <211> 216 <212> DNA <213> artificial sequence <220> <223> fragment of NOV protein <220> <221> CDS <222> (1)..(216) <223> <400> 3 cag cgc tgc cct ccc cag tgc ccg ggc cgg tgc cct gcg acg ccg 48 Gln Arg Cys Pro Pro Gln Cys Pro Gly Arg Cys Pro Ala Thr Pro Pro acc tgc gcc ccc ggg gtg cgc gcg gtg ctg gac ggc tgc tca tgc tgt 96 Thr Cys Ala Pro Gly Val Arg Ala Val Leu Asp Gly Cys Ser Cys Cys 20 25 30

		tgt Cys 35														144
_	_	gag Glu						_	_	_	_		_		-	192
	_	act Thr				_										216
<210 <211 <212 <213	L> 7 2> 1	1 72 PRT artif	icia	ıl se	equer	ıce										
	<220> <223> fragment of NOV protein															
<400 Gln 1		1 Cys	Pro	Pro 5	Gln	Cys	Pro	Gly	Arg 10	Сув	Pro	Ala	Thr	Pro 15	Pro	
Thr	Cys	Ala	Pro 20	Gly	Val	Arg	Ala	Val 25	Leu	Asp	Gly	Cys	Ser 30	Cys	Cys	
Leu	Val	Cys 35	Ala	Arg	Gln	Arg	Gly 40	Glu	Ser	Cys	Ser	Asp 45	Leu	Glu	Pro	
Cys	Asp 50	Glu	Ser	Ser	Gly	Leu 55	Tyr	Cys	Asp	Arg	Ser 60	Ala	Asp	Pro	Ser	
Asn 65	Gln	Thr	Gly	Ile	Cys 70	Thr	Ala									
<210 <211 <212 <213	.> 2 ?> I	5 201 DNA artif	icia	ıl se	equer	ıce										
<220 <223		Eragm	ent	of N	IOV F	rote	in									
<220 <221 <222 <223	.> ( !>	DS (1)	(201	.)												
	aac	tgt Cys			-		_			-	_					48
		agc Ser	_			-	_		_	_	-		-			96

```
tgt gtg ccc cgc tgt cag ctg gat gtg cta ctg cct gag cct aac tgc
                                                                      144
Cys Val Pro Arg Cys Gln Leu Asp Val Leu Leu Pro Glu Pro Asn Cys
                            40
cca gct cca aga aaa gtt gag gtg cct gga gag tgc tgt gaa aag tgg
                                                                      192
Pro Ala Pro Arg Lys Val Glu Val Pro Gly Glu Cys Cys Glu Lys Trp
                                                                      201
atc tgt ggc
Ile Cys Gly
<210> 6
<211> 67
<212> PRT
<213> artificial sequence
<220>
<223> fragment of NOV protein
Asp Asn Cys Val Phe Asp Gly Val Ile Tyr Arg Ser Gly Glu Lys Phe
Gln Pro Ser Cys Lys Phe Gln Cys Thr Cys Arg Asp Gly Gln Ile Gly
                                25
Cys Val Pro Arg Cys Gln Leu Asp Val Leu Leu Pro Glu Pro Asn Cys
Pro Ala Pro Arg Lys Val Glu Val Pro Gly Glu Cys Cys Glu Lys Trp
Ile Cys Gly
65
<210> 7
<211> 135
<212> DNA
<213> artificial sequence
<220>
<223> fragment of NOV protein
<220>
<221> CDS
<222>
      (1)..(135)
<223>
<400> 7
tgc att gaa cag acc aca gag tgg aca gca tgc tcc aag agc tgt ggt
                                                                       48
Cys Ile Glu Gln Thr Thr Glu Trp Thr Ala Cys Ser Lys Ser Cys Gly
                                    10
atg ggg ttc tcc acc cgg gtc acc aat agg aac cgt caa tgt gag atg
                                                                       96
Met Gly Phe Ser Thr Arg Val Thr Asn Arg Asn Arg Gln Cys Glu Met
            20
                                25
                                                    30
```

ctg aaa cag act cgg ctc tgc atg gtg cgg ccc tgt gaa 135 Leu Lys Gln Thr Arg Leu Cys Met Val Arg Pro Cys Glu <210> 8 <211> 45 <212> PRT <213> artificial sequence <220> <223> fragment of NOV protein Cys Ile Glu Gln Thr Thr Glu Trp Thr Ala Cys Ser Lys Ser Cys Gly 10 Met Gly Phe Ser Thr Arg Val Thr Asn Arg Asn Arg Gln Cys Glu Met 25 Leu Lys Gln Thr Arg Leu Cys Met Val Arg Pro Cys Glu <210> 9 <211> 225 <212> DNA <213> artificial sequence <220> <223> fragment of NOV protein <220> <221> CDS <222> (1)..(225) <223> <400> 9 tgt ctc cgc acc aag aag tca ctc aaa gcc atc cac ctg cag ttc aag 48 Cys Leu Arg Thr Lys Lys Ser Leu Lys Ala Ile His Leu Gln Phe Lys aac tgc acc agc ctg cac acc tac aag ccc agg ttc tgt ggg gtc tgc 96 Asn Cys Thr Ser Leu His Thr Tyr Lys Pro Arg Phe Cys Gly Val Cys 25 agt gat ggc cgc tgc tgc act ccc cac aat acc aaa acc atc cag gca 144 Ser Asp Gly Arg Cys Cys Thr Pro His Asn Thr Lys Thr Ile Gln Ala gag ttt cag tgc tcc cca ggg caa ata gtc aag aag cca gtg atg gtc 192 Glu Phe Gln Cys Ser Pro Gly Gln Ile Val Lys Lys Pro Val Met Val 55 att ggg acc tgc acc tgt cac acc aac tgt cct 225 Ile Gly Thr Cys Thr Cys His Thr Asn Cys Pro 65 70

```
<210> 10
<211> 75
<212>
      PRT
<213>
      artificial sequence
<220>
<223>
      fragment of NOV protein
<400> 10
Cys Leu Arg Thr Lys Lys Ser Leu Lys Ala Ile His Leu Gln Phe Lys
Asn Cys Thr Ser Leu His Thr Tyr Lys Pro Arg Phe Cys Gly Val Cys
                                25
Ser Asp Gly Arg Cys Cys Thr Pro His Asn Thr Lys Thr Ile Gln Ala
                            40
Glu Phe Gln Cys Ser Pro Gly Gln Ile Val Lys Lys Pro Val Met Val
Ile Gly Thr Cys Thr Cys His Thr Asn Cys Pro
                    70
<210> 11
      510
<211>
<212> DNA
<213>
      Homo sapiens
<220>
<221> CDS
<222>
      (1)..(510)
<223>
<400> 11
gct tac agg cca gaa gcc acc cta gga gta gaa gtc tct gac tca agt
                                                                       48
Ala Tyr Arg Pro Glu Ala Thr Leu Gly Val Glu Val Ser Asp Ser Ser
gtc aac tgc att gaa cag acc aca gag tgg aca gca tgc tcc aag agc
                                                                       96
Val Asn Cys Ile Glu Gln Thr Thr Glu Trp Thr Ala Cys Ser Lys Ser
                                25
tgt ggt atg ggg ttc tcc acc cgg gtc acc aat agg aac cgt caa tgt
                                                                      144
Cys Gly Met Gly Phe Ser Thr Arg Val Thr Asn Arg Asn Arg Gln Cys
gag atg ctg aaa cag act cgg ctc tgc atg gtg cgg ccc tgt gaa caa
                                                                      192
Glu Met Leu Lys Gln Thr Arg Leu Cys Met Val Arg Pro Cys Glu Gln
                                                                      240
gag cca gag cag cca aca gat aag aaa gga aaa aag tgt ctc cgc acc
Glu Pro Glu Gln Pro Thr Asp Lys Lys Gly Lys Lys Cys Leu Arg Thr
aag aag tca ctc aaa gcc atc cac ctg cag ttc aag aac tgc acc agc
                                                                      288
Lys Lys Ser Leu Lys Ala Ile His Leu Gln Phe Lys Asn Cys Thr Ser
                                    90
                85
```

ctg Leu																:	336
tgc Cys																;	384
tcc Ser					-	_	_			_	_				_	4	432
acc Thr 145																4	480
ctg Leu		_	_			_			_							į	510
<210 <211 <212 <213	> 1 > I	L2 L70 PRT Homo	sapi	iens													
<400 Ala '		l2 Arg	Pro	Glu 5	Ala	Thr	Leu	Gly	Val 10	Glu	Val	Ser	Asp	Ser 15	Ser		
Val 2	Asn	Cys	Ile 20	Glu	Gln	Thr	Thr	Glu 25	Trp	Thr	Ala	Cys	Ser 30	Lys	Ser		
Cys (	Gly	Met 35	Gly	Phe	Ser	Thr	Arg 40	Val	Thr	Asn	Arg	Asn 45	Arg	Gln	Cys		
Glu I	Met 50	Leu	Lys	Gln	Thr	Arg 55	Leu	Cys	Met	Val	Arg 60	Pro	Cys	Glu	Gln		
Glu : 65	Pro	Glu	Gln	Pro	Thr 70	Asp	Lys	Lys	Gly	Lys 75	Lys	Cys	Leu	Arg	Thr 80		
Lys 1	_																
	Lys	Ser	Leu	Lys 85	Ala	Ile	His	Leu	Gln 90	Phe	Lys	Asn	Cys	Thr 95	Ser		
Leu l				85					90					95			
	His	Thr	Туr 100	85 Lys	Pro	Arg	Phe	Cys 105 Thr	90 Gly	Val	Cys	Ser	Asp 110 Phe	95 Gly	Arg		
Leu I	His Cys	Thr Thr 115	Tyr 100 Pro	85 Lys His	Pro Asn	Arg Thr	Phe Lys 120	Cys 105 Thr	90 Gly Ile	Val Gln	Cys Ala	Ser Glu 125、	Asp 110 Phe	95 Gly Gln	Arg Cys		
Leu I	His Cys Pro 130	Thr Thr 115 Gly	Tyr 100 Pro Gln	85 Lys His	Pro Asn Val	Arg Thr Lys 135	Phe Lys 120 Lys	Cys 105 Thr	90 Gly Ile Val	Val Gln Met	Cys Ala Val 140	Ser Glu 125、 Ile	Asp 110 Phe Gly	95 Gly Gln Thr	Arg Cys Cys		